

## AMENDMENTS TO THE CLAIMS

1. (Currently amended) A battery mounting for detachable placement in a device, the battery mounting comprising:
  - a housing for at least one ~~one or more~~ battery cell ~~eels~~;
  - a clip having a cammed surface for providing cooperation between the housing and ~~with~~ a portion of the device;
  - a lock ~~with a means~~ for applying a force to the clip for locking the battery mounting in place in the device; and
  - at least one power contact for connecting the at least one battery cell ~~eels~~ to the device; wherein the lock provides a load in the engaging direction of the at least one power contact ~~contacts~~.
2. (Currently amended) A battery mounting as claimed in claim 1, wherein the lock ~~is~~ comprises one of a screw ~~or~~ and a clamp applied to the clip.
3. (Original) A battery mounting as claimed in claim 1, wherein the clip deflects to allow mounting in the device and the cammed surface acts with the portion of the device to urge the battery mounting into the correct mounted position relative to the device.
4. (Currently amended) A battery mounting as claimed in claim 1, wherein the clip ~~is~~ comprises a protrusion with a central support between a first end and a second end of the protrusion, the first end has the cammed surface and engages the portion of the device, the lock acts on the second end of the protrusion, the protrusion is deflectable about the central support.
5. (Currently amended) A battery mounting as claimed in claim 1, wherein the battery mounting is adapted for mounting ~~mounted~~ slidably within an opening in the device and the battery mounting has at least one hook ~~means at~~ each of a bottom end and a top end ~~ends~~ of the battery mounting for ~~location~~ hooking through openings in the device.
6. (Currently amended) A battery mounting as claimed in claim 1, wherein the housing and the clip are formed of a one piece plastic moulding.

7. (Currently amended) A battery mounting as claimed in claim 1, wherein the battery mounting ~~has-comprises~~ a logic device means with sprung logic contacts for connecting to corresponding power contacts on the device.
8. (Currently amended) A battery mounting as claimed in claim 7, wherein the logic device means is-comprises a printed circuit board containing data about the at least one battery cell cells.
9. (Currently amended) A device with a detachable battery mounting, the device comprising:  
a board with an opening in which the battery mounting is detachably mounted ~~placeable~~;  
at least one power contact disposed on the cross-section of the board within the opening; and  
the battery mounting comprising:  
a housing for at least one ~~or more~~ battery cell cells;  
a clip having a cammed surface for providing cooperation between the housing ~~and with~~ a portion of the board;  
a lock ~~with-a means-for~~ applying a force to the clip for locking the battery mounting in place in the opening; and  
at least one power contact ~~for connecting the~~ at least one battery cell cells to the at least one power contact on the board; wherein the lock provides a load in the engaging direction of the at least one power contact ~~contacts~~.
10. (Currently amended) A device as claimed in claim 9, wherein the lock is comprises one of a screw ~~or~~ and a clamp applied to the clip.
11. (Original) A device as claimed in claim 9, wherein the clip deflects to allow mounting in an aperture of the device and the cammed surface acts with the aperture in the device to urge the battery mounting into the correct mounted position relative to the device.
12. (Currently amended) A device as claimed in claim 9, wherein the clip is a protrusion with a central support between a first end and a second end of the protrusion, the first end has

the cammed surface and engages an ~~the~~ aperture in the device, the lock acts on the second end of the protrusion, the protrusion is deflectable about the central support.

13. (Currently amended) A device as claimed in claim 9, wherein the battery mounting is detachably mounted slidably within the opening in the device and the battery mounting has at least one hook ~~means~~ at each of a bottom end and a top end ~~ends~~ of the battery mounting for location through openings in the device.
14. (Currently amended) A device as claimed in claim 9, wherein the battery mounting ~~when inserted in place~~ is recessed within the opening of the board.
15. (Currently amended) A device as claimed in claim 9, wherein the housing and the clip are formed of a one-piece plastic moulding.
16. (Currently amended) A device as claimed in claim 9, wherein the battery mounting comprises ~~has~~ a logic device ~~means~~ with sprung logic contacts for connecting to corresponding contacts on the device.
17. (Currently amended) A device as claimed in claim 9, wherein the logic device ~~means~~ is ~~comprises~~ a printed circuit board containing data about the at least one battery cell ~~cells~~.
18. (Currently amended) A device as claimed in claim 9, wherein the board ~~is~~ comprises a printed circuit board.
19. (Currently amended) A device as claimed in claim 9, wherein the device ~~is~~ comprises a storage peripheral component interface (PCI) adapter.
20. (Currently amended) A method of inserting a battery mounting in a device, comprising:
  - slidably engaging the battery mounting within an opening in the device;
  - engaging at least one hook ~~means~~ on the battery mounting with openings in the device;
  - engaging in an aperture of the device a clip of the battery mounting comprising ~~with~~ a cammed surface ~~in an aperture of the device~~; the cammed surface urging the

battery mounting into the correct mounted position relative to the device; and  
locking the battery mounting relative to the device with a locking device for  
~~means~~-applying a force to the clip in the engaging direction of power contacts in the  
device;  
~~the step of locking loading power contacts for connecting the battery cells to the~~  
~~device in the engaging direction of the contacts.~~

Please add the following claims:

21. (New) A battery mounting for detachable placement in a device, the battery mounting comprising:
- means for housing at least one battery cell;
  - means for providing engagement between the means for housing and a portion of the device;
  - means for applying a force to the means for providing engagement for locking the battery mounting in place in the device; and
  - at least one power contact for connecting the at least one battery cell to the device; wherein the means for applying force provides a load in an engaging direction of the at least one power contact.
22. (New) A battery mounting as in claim 21, further comprising logic means for monitoring battery information.
23. (New) A battery mounting as in claim 22, wherein the battery information comprises at least one of: current charge state, lifetime, power-on-hours, and expected discharge characteristics.
24. (New) An apparatus for enabling continuous operation of a circuit board during the replacement of at least one battery connected thereto, comprising:
- a battery housing detachably mounted to the circuit board, the battery housing adapted for containing at least one battery cell and comprising a clip having a cammed surface for sliding engagement with the circuit board within an opening of the circuit board; a lock for applying a force to the clip for urging the clip against the circuit board

within the opening; and power contacts of the battery housing for electrically connecting the at least one battery cell to corresponding power contacts of the circuit board; wherein the lock provides a load in an engaging direction of the power contacts of the battery housing; wherein the apparatus is adapted for removal and replacement during operation of the circuit board.

25. (New) An apparatus as in claim 24, wherein an edge of the opening comprises the power contacts of the circuit board.

26. (New) An apparatus as in claim 24, wherein a wall of the battery housing comprises the power contacts of the battery housing.

27. (New) An apparatus as in claim 24 wherein the circuit board comprises a peripheral component interface (PCI) adapter.

28. (New) A method of replacing at least one battery of a circuit board, the method comprising:  
    providing the circuit board to comprise an opening for containing a detachable battery housing for at least one battery cell, the housing comprising a clip having a cammed surface for providing cooperation between the housing and a portion of the opening, the housing further comprising a lock for applying a force to the clip for locking the battery housing in place in the opening and power contacts for electrically connecting the at least one battery cell to the circuit board, said power contacts comprising first power contacts disposed on said housing and second power contacts disposed adjacent to said opening on said circuit board, where the lock provides a load in the engaging direction of the power contacts and attaches the battery housing to the circuit board;  
    during operation of electronic components disposed on said circuit board,  
    operating the lock so as to remove the load in the engaging direction of the power contacts for detaching the battery housing from the circuit board;  
    exchanging the at least one battery cell in the housing with at least one replacement battery cell; and  
    operating the lock so as to apply the load in the engaging direction of the power contacts for attaching the battery housing to the circuit board.

29. (New) A method as in claim 28, where operation of the electronic circuitry is not disrupted.
30. (New) A method as in claim 28, where said circuit board and electronic circuitry comprise a peripheral component interface (PCI) of a data storage system.